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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/903,801	07/12/2001	Bertil Kronlund	21856	1735	
24932	7590 09/16/200	-			
	LAW OFFICE OF LAWRENCE E LAUBSCHER, JR 1160 SPA RD			EXAMINER	
SUITE 2B			LE, THANH TAM T		
ANNAPOLI	S, MD 21403				
			ART UNIT	PAPER NUMBER	
			2839		
			DATE MAILED: 09/16/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/903,801	KRONLUND ET AL.				
		Examiner	Art Unit				
	The MAU INO DATE of the	Thanh-Tam T. Le	2839				
reliou lo							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION:  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any							
Status  1) Responsive to communication(s) filed on 12 July 2001							
2a)□	Responsive to communication(s) filed on <u>12 Jac</u> This action is <b>FINAL</b> . 2b)  This						
	/ <b></b>	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims							
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ (	6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) 🗌 C	Claim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	a) ☐ All b) ☐ Some * c) ☐ None of:						
1.	1. Certified copies of the priority documents have been received.						
2.	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of 2) Notice of 3) Informati	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948) ion Disclosure Statement(s) (PTO-1449) Paper No(s) 1.	4) Interview Summary 5) Notice of Informal if 6) Other:	(PTO-413) Paper No(s) Patent Application (PTO-152)				
U.S. Patent and Trade PTOL-326 (Rev.		on Summary	Part of Paper No. 5				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 10-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Gilliland et al. (6,607,307).

Gilliland et al., figures 1-2, disclose an electrical data bus including a power line, comprising a first electrical connector (28) for connection to an electrical connector attached to an electrical data bus and a second optical connector (30) for connection to an optic fiber. The first electrical connector comprising a data interface circuit (50R) for communication with a respective the electrical bus, an optical transmitter (32) and optical receiver (31) electrically connected to the data interface circuit, driver circuits (50T) for the optical transmitter and optical receivers. The driver circuits obtaining

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power from the power line on the local electrical data bus, and an optic fiber connected between the optical transmitter and receivers and the second optical connector.

Regarding claims 11 and 12, the data interface circuit, the driver circuit and the optical transmitter and receiver at each end of the optical fiber are integrated in to a respective connector housing (10). The housing is made of plastic.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gilliland et al. (6,607,307) in view of Linnell (6,466,718)

Regarding claims 1-3 and 7-8, Gilliland et al. disclose the instant claimed invention as described as claims 10-12 above except for a second electrical connector.

Linnell, figure 5, discloses a cable (520) is connected between a pair of plugs (94a and 94b), the plug 94b that read as a second electrical connector. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Gilliland et al. with the plug as taught by Linnell, in order to have a better connection.

Regarding claim 4, Gilliland et al. disclose the housing making a snap fit with the electrical connector.

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Regarding claim 5, the fiber a large core plastic fiber.

Regarding claims 6 and 9, the electrical bus is a Universal Serial Bus.

## Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Jensen et al. (5,258,868) disclose an optical process variable transmitter and Sokolowska et al. (5,418,360) disclose a serial optical signal distribution system.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is (703) 306-5711. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (703) 308-2710. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

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Any correspondence to this action may be mailed to:

Commissioner for Patents Post Office Box 1450 Alexandria, VA 22313-1450

For additional information regarding this new address, which was effective May 1, 2003, see Correspondence with the United States Patent and Trademark Office, 68 Fed. Reg. 14332 (March 25, 2003).

Or faxed to: 703-308-7722 or 308-7724 (informal or draft communications should be clearly labeled "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to:

Crystal Plaza 4, Fourth Floor (receptionist) 2201 South Clark Place, Arlington, Virginia

TL.

JAVAID H. NASRI PRIMARY EXAMINER